

# Bo Lontum

## 3STAGES CODE PIPELINE HOMEWORK

BUILDING A THREE STAGE PIPELINE TO DEPLOY A GIVEN APPLICATION USING CLOUDFORMATION AS A DEPLOY PROVIDER

### 1) Out-put of local testing of my template

```
Session ID: admin-minf2xzbj6r6jovwukhl5ge5uy Instance ID: i-0ce1c3f4f3c4ead31 Terminate
```

```
[ec2-user@ip-10-0-0-64 ~]$ history
1  aws s3 ls
2  clear
3  aws s3 ls
4  clear
5  aws s3 ls
6  aws s3 ls
7  aws s3 ls
8  aws configure
9  aws s3 cp s3://bo-dev-source-bucket-prod2 /Ec2WithCustomBovpc.yml .
10 python --version
11 pwd
12 clear
13 sudo yum update -y
14 sudo yum install python3 -y
15 curl -O https://bootstrap.pypa.io/get-pip.py
16 python3 get-pip.py
17 pip3 install cfn-lint
18 clear
19 cfn-lint --version
20 aws s3 cp s3://bo-dev-source-bucket-prod2 /Ec2WithCustomBovpc.yml .
21 aws s3 cp s3://bo-dev-source-bucket-prod2 /Ec2WithCustomBovpc.yml ./Ec2WithCustomBovpc.yml
22 ls -l
23 cat Ec2WithCustomBovpc.yml
24 aws cloudformation package --template-file Ec2WithCustomBovpc.yml --s3-bucket bo-deployed-artifact-bucket --output-template-file build-artifact-template.yml
25 clear
26 ls -l
27 cat Ec2WithCustomBovpc.yml
28 clear
29 cat build-artifact-template.yml
30 clear
31 history
32 clear
33 history
[ec2-user@ip-10-0-0-64 ~]$
```

Script Editor

### 2) Source code is codecommit

Developer Tools

CodePipeline

Source • CodeCommit

Artifacts • CodeArtifact

Build • CodeBuild

Deploy • CodeDeploy

Pipeline • CodePipeline

Getting started

Pipelines

Pipeline

History

Settings

Settings

Developer Tools

CodePipeline

Pipelines

homework-pipeline

Notify

Edit

Stop execution

Clone pipeline

Release change

Pipeline type: V2 Execution mode: QUEUED

Source Succeeded

Pipeline execution ID: 482144ad-220b-4985-9814-8933a363730d

Source

AWS CodeCommit

Succeeded - 23 minutes ago

6e986178

View details

6e986178 Source: homework modified template

Developer Tools

CodeCommit

Source • CodeCommit

Getting started

Repositories

Approval rule templates

Artifacts • CodeArtifact

Build • CodeBuild

Deploy • CodeDeploy

Pipeline • CodePipeline

Developer Tools

CodeCommit

Repositories

Info

Notify

Clone URL

View repository

Delete repository

Create repository

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Name	Description	Last modified	Clone URL	AWS KMS Key
homework-repo	use this to launch a three cicd pipeline	3 days ago	HTTPS SSH HTTPS (GRC)	arn:aws:kms:us-east-1:975049985507:key/32d2663b-6446-4a22-ae2c-c2f9c213aef

### 3) Build and deployed stages

The screenshot shows the AWS CodePipeline console. On the left, the 'Developer Tools' sidebar is open, showing the 'CodePipeline' section. The main area displays a pipeline with two stages: 'Build' and 'Deploy'. The 'Build' stage is marked as 'Succeeded' with a green checkmark and a timestamp of 'Jul 1, 2024 9:57 AM (UTC-4:00)'. Below it, a 'View details' button is visible. The 'Deploy' stage is also marked as 'Succeeded' with a green checkmark and a timestamp of 'Jul 1, 2024 9:58 AM (UTC-4:00)'. Below it, a 'View details' button is visible. A 'Disable transition' button is located between the two stages. On the right side of the 'Deploy' stage, there are three green checkmarks in a vertical column. At the bottom right, a 'Start rollback' button is visible.

### 4) Pjtemplate running on CloudFormation

The screenshot shows the AWS CloudFormation console. On the left, the 'CloudFormation' sidebar is open, showing the 'Stacks' section. The main area displays the 'homework-test-env-stack' stack. The 'Events' tab is selected, showing a list of 38 events. The events are filtered by 'Active' status. The table below shows the first five events:

Timestamp	Logical ID	Status	Detailed status	Status reason
2024-07-01 09:58:31 UTC-0400	homework-test-env-stack	CREATE_COMPLETE	-	-
2024-07-01 09:58:28 UTC-0400	WebServerInstance	CREATE_COMPLETE	-	-
2024-07-01 09:58:08 UTC-0400	homework-test-env-stack	CREATE_IN_PROGRESS	CONFIGURATION_COMPLETE	Eventual consistency check initiated
2024-07-01 09:58:08 UTC-0400	WebServerInstance	CREATE_IN_PROGRESS	CONFIGURATION_COMPLETE	Eventual consistency check initiated
2024-07-01 09:58:04 UTC-0400	PublicSubnetNetworkACLAssociation	CREATE_COMPLETE	-	-

## Runing on ec2-instance

The screenshot displays the AWS Management Console interface. On the left, a navigation sidebar lists various services including VPC, EC2, IAM, S3, CloudTrail, CloudWatch, Simple Notification Service, Billing and Cost Management, Route 53, RDS, CloudFront, and Key Management Service. The main content area is titled 'Instances (1/1) Info'. It features a search bar with the placeholder text 'Find Instance by attribute or tag (case-sensitive)' and a filter dropdown set to 'Running'. Below this, a table lists the instance details:

Name	Instance ID	Instance state	Instance type	Status check	Alarm st.
bo-instance	i-09039472d8799c9a3	Running	t2.micro	2/2 checks p	View alar

Below the table, the details for the selected instance 'i-09039472d8799c9a3 (bo-instance)' are shown. The 'Details' tab is active, displaying the following information:

- Instance summary Info**
- Instance ID:** i-09039472d8799c9a3 (bo-instance)
- Public IPv4 address:** 44.193.211.69 | [open address](#)
- Private IPv4 addresses:** 10.0.0.191
- IPv6 address:** -
- Instance state:** Running
- Public IPv4 DNS:** ec2-44-193-211-69.compute-1.amazonaws.com | [open address](#)
- Hostname type:** IP name: ip-10-0-0-191.ec2.internal
- Private IP DNS name (IPv4 only):** ip-10-0-0-191.ec2.internal
- Answer private resource DNS name:** -
- Instance type:** -
- Elastic IP addresses:** -

## Net work created( Bo-vpc)

The screenshot displays the AWS Management Console interface for a VPC. The left sidebar shows the 'Your VPCs' section. The main content area is titled 'vpc-03de399a136d0cce8 / bo-vpc'. It features a search bar with the placeholder text 'Search tags' and a filter dropdown set to '1'. Below this, the 'Tags' tab is active, displaying the following information:

Key	Value
aws:cloudf...	homework-test-env-stack
Name	bo-vpc
aws:cloudf...	arn:aws:cloudformation:us-east-1:975049985507:stack/homework-test-env-stack/ddf0ce60-37b1-11ef-9ee1-0affd389bce1
aws:cloudf...	VPC